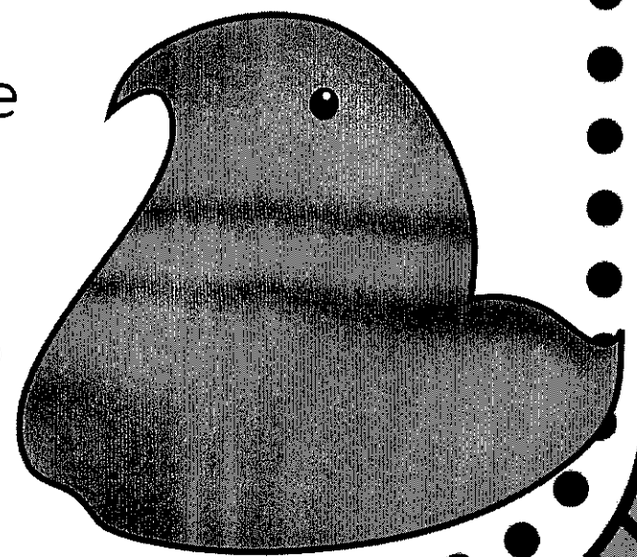
Protect a Peep

Engineering Challenge



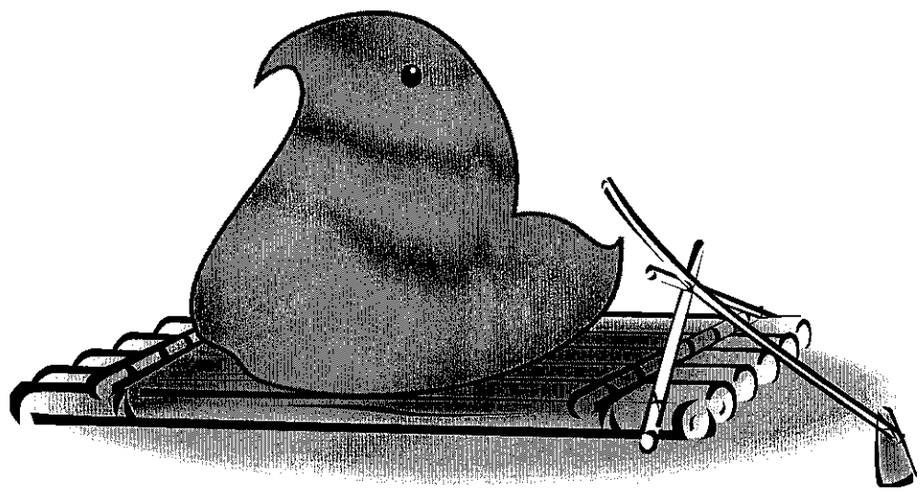
Can you create a raft using the materials provided that will keep your peep safe and dry for the longest period of time?

Created by: Smart Chick Teaching Resources

Teacher Directions

Materials: (per pair of students)

- One peep
- 12 Popsicle sticks
- 2 feet of tape
- 2 feet of yarn
- Glue
- Tub of water
- Timer



Set-Up:

- Give student pairs the materials needed. You may want to place a tub of water at each table or group area. They may want to test the raft before they add the peep onto it.
- Provide an opportunity for students to sketch out a few ideas before they begin creating. Do not give them any additional tape or yarn.

Goal:

Students will construct a raft using the materials provided that will keep their peep safe and dry for the longest period of time.

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Engineering Challenge

Can you create a raft using the materials provided that will keep your peep safe and dry for the longest period of time?

Challenge Rules

- You must use **only** the supplies provided.
- The raft that you create must be able to float while holding the weight of a peep!
- Your goal is to build a raft that will keep your peep safe and dry for the longest period of time.
- You can use the materials in any way you want, but you will not be given additional tape or yarn.
- There are many different ways to complete this challenge. Be creative!

Student Lab Sheet: Protect a Peep Challenge Name _____

Were you successful in this challenge? Why or why not?

What was the most difficult part of this challenge? Why?

What was the best idea you came up with during this challenge?

My Questions:

How long did your peep stay safe and dry on the raft? How did your raft do compared to the rest of the class? Why?

What did you learn about construction and engineering during this challenge?

Sketch your solution on the back of the sheet.

Student Lab Sheet: Protect a Peep Challenge

Name _____

What is the science behind this challenge?

Research this topic using books and/or the Internet and record any information you find.

What was your design solution for this challenge?

What data can you record from this challenge?